



SDSMART



SDBE



SDIX

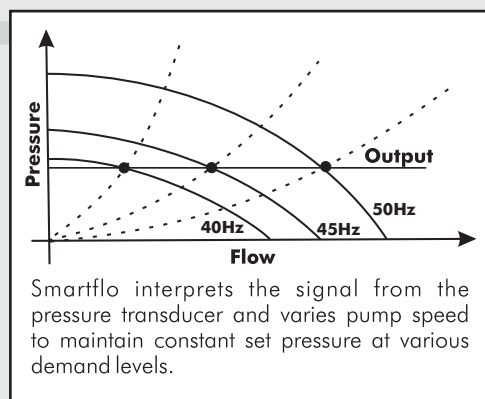
Variable speed control is a widely used technology for pump control & works by varying the pump speed to provide system water output at a constant pressure. Smart Inverter booster sets feature an integrated variable speed inverter drive within a permanent magnet motor. This provides the following benefits:

- Constant pressure providing consistent, even supply to the consumer.
- Large energy cost savings as systems are always operating at peak efficiency for the demand conditions.
- Extended pump life due to reduced electrical and mechanical operating loads.
- Silent operation with no pressure shocks
- Simplified installation due to compact dimensions and integral pump control with no separate control panel needed

Principle system components include an integral variable speed controller, a quality Dayliff pump, a pressure sensor and a surge tank that smoothes the operating cycle. The integral controllers offer the following features;

- Varies pump speed to maintain a pre-set system pressure.
- Over voltage, under voltage, single phasing and electrical overload protection.
- Dry run protection with auto restart.
- Integral soft start/stop function which extends pump life, reduces system pressure loads and reduces mains power loading on start up.
- Master-Slave controller configurations and synchronization of multiple controller systems for sequenced pump operation.
- Balanced pump operation ensuring equalized operating periods for each system pump.

All Dayliff Smart inverter booster sets use the latest technology controllers integrated into a quality Dayliff pump and are supplied frame mounted complete with inlet, outlet manifolds and valves for simple installation. Nominal system pressures can be set to suit site conditions and multiple pump configurations are available. Variable speed technology is now accepted as the most efficient way to provide on-demand water supply in all sorts of industrial, commercial and domestic applications. Dayliff smart inverter booster sets are the ideal solution in the application of this efficient technology.



SPECIFICATIONS

Pumps - Options of Dayliff Dsmart, DBE or DIX permanent magnet smart inverter centrifugal pumps.

Controllers - Integrally mounted controllers that provide a pump control system that utilizes variable frequency drive technology (VFD) to provide constant pressure at varying demand flow requirements.

Motors - The pumps are coupled to a high efficiency IE5 permanent magnet variable speed motor complying with IEC standards. The motors can be

PUMP DETAILS			2 PUMP SYSTEM						3 PUMP SYSTEM					
PUMP	POWER (kW)	SYSTEM PRESSURE (Bar)	MODEL No.	NOMINAL OUTPUT (m ³ /hr)	TANK SIZE (Lit)	INLET/OUTLET (")	LxWxH (mm)	WEIGHT (Kg)	MODEL No.	NOMINAL OUTPUT (m ³ /hr)	TANK SIZE (Lit)	INLET/OUTLET (")	LxWxH (mm)	WEIGHT (Kg)
DAYLIFF DBE 5-40	1.1xph	4	SDBE 2-10/40	10	3	1 1/4	675x600x700	80	SDBE 3-15/40	15	3	1 1/2	900x600x700	105
DSMART 1500	1.5x1ph		SDSMART 2-24/40	24	3	2	675x675x790	90	SDSMART 3-36/40	36		2	900x675x790	115
DAYLIFF DBE 12-40	2.2x1ph		SDBE 2-24/40				675x675x750	100	SDBE 3-36/40				900x675x750	125
DAYLIFF DIX 5-15	5.5x3ph	18	SDIX 2-10/180	10	24	3	675x675x940	180	SDIX 3-15/180	15	24	3	1100x675x940	205
DAYLIFF DIX 10-8	7.5x3ph	15	SDIX 2-20/150	20				190	SDIX 3-30/150	30				215
DAYLIFF DIX 20-5	10x3ph	11	SDIX 2-40/110	40				210	SDIX 3-60/110	60		4	1500x675x1180	235